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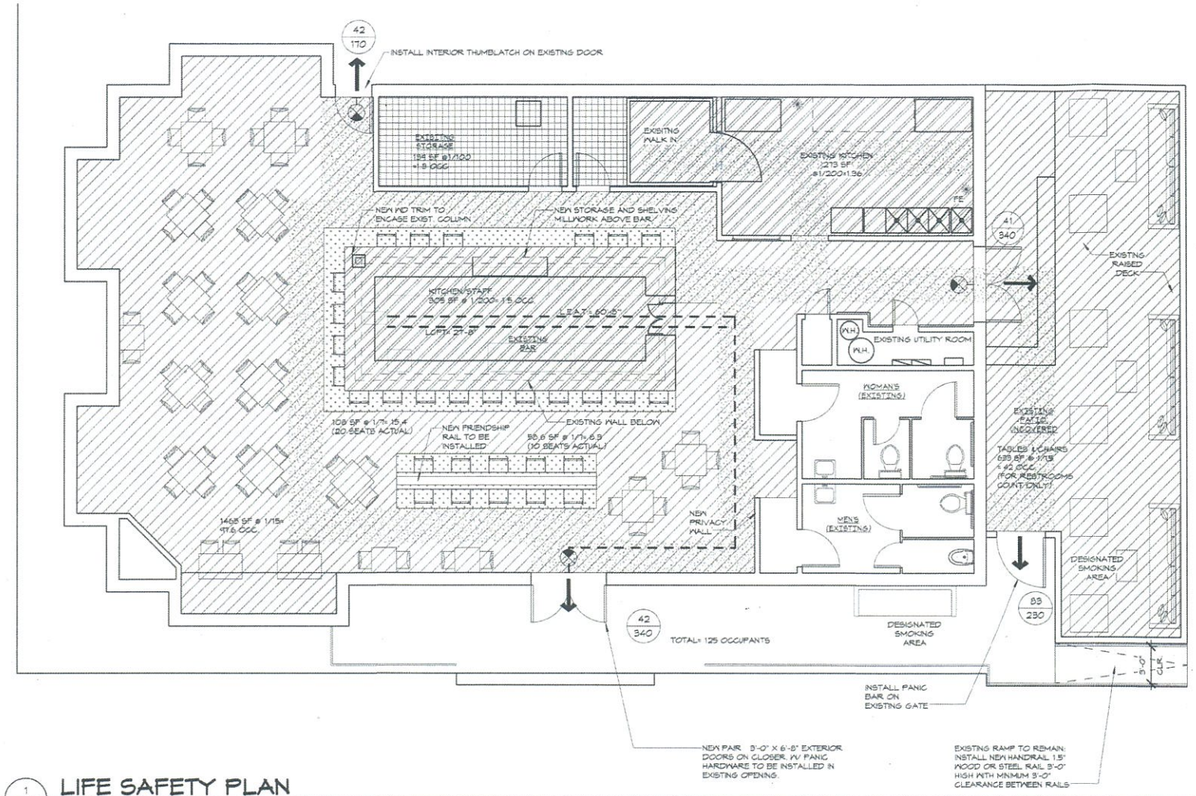

1 LS1.01

LIFE SAFETY PLAN

3/16" = 1'-0"

LIFE SAFETY LEGEND

- FIRE EXTINGUISHER CABINET
- FIRE EXTINGUISHER (WALL HUNG)
- STANDPIPE
- EXIT SIGN
- WALL MOUNTED EXIT SIGN
- WALL MOUNTED COMBINATION EMERGENCY/ EXIT LIGHT
- WALL MOUNTED EXTERIOR EGRESS EMERGENCY LIGHT
- WALL MOUNTED EMERGENCY LIGHT
- 9 — SUPRA LOCK BOX - RECESSED TRAC-Vault
- FACP — FIRE ALARM CONTROL PANEL
- F — FIRE ALARM PULL BOX

- PATH OF TRAVEL L.C.P.T. = LONGEST COMMON PATH OF TRAVEL L.E.A.T. = LONGEST EXIT ACCESS TRAVEL DISTANCE
- EXIT DISCHARGE
- 123 / 138 — ACTUAL EGRESS LOAD / EGRESS CAPACITY
- KITCHEN — ROOM NAME
- 109 — ROOM NUMBER
- 406 SF / 5 OCC. — RELEVANT AREA CALCULATION / OCCUPANT LOAD

NOTES:

1. PROVIDE PORTABLE FIRE EXT. IN ACCORDANCE W/ INTERNATIONAL FIRE CODE DURING DEMOLITION & CONSTRUCTION
2. EGRESS CAPACITY IS BASED ON CLEAR WIDTH OF DOOR MINUS 2" FOR SINGLE DOORS, 4" FOR DOUBLE DOORS

OCCUPANCY HATCH LEGEND

- EGRESS AISLE (REQUIRED TO REMAIN UNOBSTRUCTED)
- ASSEMBLY (UNCONCENTRATED, TABLES & CHAIRS) 1 PER 15 SF
- ASSEMBLY (CONCENTRATED) 1 PER 7 SF
- COMMERCIAL KITCHEN/ SERVICE AREA 1 PER 200 SF
- OFFICE SPACE 1 PER 100 SF
- SERVICE AREA 0 OCCUPANTS

OCCUPANCY SUMMARY

DESIGN OCCUPANT LOAD CALCULATIONS FOR EGRESS:

TABLES & CHAIRS, UNCONCENTRATED (1 PER 15 SF)= 1465 SF/15= 97.6

BAR, CONCENTRATED (1 PER 7 SF)= 166.6 SF/ 7= 23.8 (50 SEATS ACTUAL)

KITCHEN & STAFF (1 PER 200 SF)= 273 + 305 SF= 578 SF/200= 2.89

OFFICE (1 PER 100 SF)= 134 SF /100= 1.3

RESTROOM SERVICE AREA= 0

TOTAL= 97.6 + 23.8 + 2.89 + 1.3= 125.54 (125 OCCUPANTS)

RESTROOM CALCULATIONS:
125 (INT) + 42 (EXT)= 167 OCCUPANTS
83 MEN + 84 WOMEN

1.17 OCC (GROUP A-2) @ 1/75= 1.56 TOILETS
50 OCC (GROUP A-2) @ 1/40= 1.25 TOILETS

TOTAL REQUIRED TOILETS= 2.8 (1.4 MALE, 1.4 FEMALE)
TOTAL PROVIDED= 4.0 (2 MALE, 2 FEMALE)

LAVS REQ'D (GROUP A-2)(1 PER 200)= 0.54
LAVS REQ'D (GROUP A-2)(1 PER 75)= 0.59

TOTAL REQUIRED LAVS= 1.12
TOTAL PROVIDED= 2.0

BUILDING CODE SUMMARY

APPLICABLE BUILDING CODE EDITIONS
2015 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL FIRE CODE
2015 INTERNATIONAL PLUMBING CODE
2015 INTERNATIONAL MECHANICAL CODE
2015 INTERNATIONAL FUEL GAS CODE
2009 INTERNATIONAL ENERGY CONSERVATION CODE
2015 INTERNATIONAL PROPERTY MANAGEMENT CODE
2014 NATIONAL ELECTRIC CODE
CC A117.1-2009 ACCESSIBLE AND USABLE BUILDING AND FACILITIES CODE

PROJECT DESCRIPTION:
REMODEL OF EXISTING BAR/RESTAURANT

PROJECT ADDRESS:
531 WADE HAMPTON BLVD
GREENVILLE SC 29609

PROJECT JURISDICTION (AHJ):
CITY OF GREENVILLE/ COUNTY OF GREENVILLE SC

CONSTRUCTION:
NEW (__)
ADDITION (__)
ALTERATION (X)
RESTORATION (__)

BUILDING OCCUPANCY CLASSIFICATION: MIXED USE, SEPARATED

BUILDING AREAS BY OCCUPANCY:
TOTAL BUILDING AREA: ASSEMBLY, GROUP A-2= 2720 SF

BUILDING OCCUPANT LOADS BY AREA:
TOTAL ASSEMBLY, GROUP A-2= 125 OCCUPANTS

GENERAL BUILDING HEIGHTS AND AREAS (504)

TYPE OF CONSTRUCTION:	V-B
SPRINKLER SYSTEM PROVIDED:	NO
SPRINKLER INCREASE:	NO
STORY INCREASE:	NO
HEIGHT INCREASE:	NO
ALLOWABLE HEIGHT:	40'
ACTUAL HEIGHT:	EXISTING 20'
ALLOWABLE STORIES ABOVE GRADE:	1
ALLOWABLE BUILDING AREA (T506.2): EQUATION 5-3: As= [At + (Ns X If)] At= [6000 + (6000 X .61)]	6,000 SF 9660 SF
ACTUAL BUILDING AREA:	2720 SF
FRONTAGE INCREASE:	NO

TENANT FIRE AREA= 2720 SF

REQUIRED SEPARATION OF OCCUPANCIES (T508.4)
N/A

FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (T601)
CONSTRUCTION TYPE= V-B

STRUCTURAL FRAME=	0 HOURS
BEARING WALLS	
EXTERIOR=	0 HOURS
INTERIOR=	0 HOURS
NONBEARING WALLS	
INTERIOR=	0 HOURS
FLOORS=	0 HOURS
ROOF=	0 HOURS

INTERIOR FINISHES (803)
OCCUPANCY: GROUP A-2, NONSPRINKLERED
-INTERIOR EXIT STAIRWAYS, RAMPS, PASSAGEWAYS= CLASS A
-CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRS/ RAMPS= CLASS A
-ROOMS AND ENCLOSED SPACES= CLASS B*
*CLASS C FINISHES PERMITTED IN ASSEMBLY OCC. LESS THAN 300.

FIRE PROTECTION SYSTEM (903)
GROUP A-2
SPRINKLER NOT REQUIRED
-FIRE AREA LESS THAN 5,000 SF

PORTABLE FIRE EXTINGUISHERS (906)
PROVIDE NFPA 10 COMPLIANT/ GENERAL PURPOSE CLASS A-B-C UNITS:
-WITHIN 30' OF COMMERCIAL COOKING EQUIPMENT
-IN CONSPICUOUS LOCATIONS
-PER INTERNATIONAL FIRE CODE
SEE LIFE SAFETY PLAN FOR LOCATIONS

FIRE ALARM DETECTION SYSTEMS (907)
GROUP A-2
-NOT REQUIRED. OCCUPANT LOAD LESS THAN 300

MEANS OF EGRESS
REFER TO LIFE SAFETY PLAN FOR OCCUPANT LOAD (1004)

MINIMUM WIDTH BASED ON COMPONENT (1005):
SPRINKLERED (__), NONSPRINKLERED (X)

-STAIRWAYS: 0.3" PER OCCUPANT
-OTHER: 0.2" PER OCCUPANT
SPACES WITH ONE EXIT (T1006.2.1)
-GROUP A-2: MAX OCC. LOAD OF 49;
MAX. COMMON PATH OF TRAVEL= 75'

ACCESSIBLE MEANS OF EGRESS (1009)
-REQUIRED ACCESSIBLE EXITS: 0, PER 1009.1 EXC 1
-PROVIDED ACCESSIBLE EXITS: 3
-48" CLEAR FOR ACCESSIBLE STAIRWAYS

STAIRWAYS (1011)
-WIDTH DETERMINED BY OCCUPANT LOAD SERVED AND 44" CLEAR REQUIRED FOR EGRESS OR 36" IF SERVING LESS THAN 50
-LANDING REQ'D AT TOP AND BOTTOM OF STAIR RUN

HANDRAILS (1014)
-PROVIDED BETWEEN 34" AND 38" ABOVE STAIR TREAD NOSINGS OR RAMP SURFACE
-EXTEND NOT LESS THAN 12" BEYOND TOP RISER AND CONTINUE TO SLOPE FOR THE DEPTH OF ONE TREAD BEYOND THE BOTTOM RISER
-RETURN TO WALL, GUARD, OR WALKING SURFACE

EXIT ACCESS TRAVEL DISTANCE (T1017.2)
-GROUP A-2, NONSPRINKLERED= 200'
-GROUP M, NONSPRINKLERED= 200'

CORRIDORS (T1020.1)
-NOT APPLICABLE

COMMON PATH OF EGRESS TRAVEL (1024.8)
-MAX 75' FOR AREAS SERVING LESS THAN 50

MINIMUM ROOF COVERING (1505)
-TYPE V-B CONSTRUCTION= CLASS C COVERING
-ASPHALT SHINGLE ROOF EXISTING, CLASS A

TENANT 'A' PLUMBING FIXTURES REQUIRED (T2902.1)
OCC. LOADS 125 (INT) + 42 (EXT)= 167 OCCUPANTS
83 MEN + 84 WOMEN

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TOTAL REQUIRED LAVS= 1.12
TOTAL PROVIDED= 2.0

SERVICE SINK: 1 PROVIDED

WATER FOUNTAINS: SUBSTITUTION PER IPC 410.4

Johnston DESIGN GROUP

STATE OF SOUTH CAROLINA — JOHNSTON DESIGN GROUP, LLC — GREENVILLE, SC — 01025 — REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA — REGISTERED ARCHITECT

4/7/17

531 WADE HAMPTON BLVD.

531 WADE HAMPTON
GREENVILLE SC, 29609

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Revisions:

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Date: 04.07.2017
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Checked By: JSJ

LIFE SAFETY CODE DATA

LS1.01